

an arm assembly comprising two interchangeable arms of different length. Each arm may carry a pair of sockets (substantially identical to the socket 198) for mounting of the displays 152, 154 at opposing ends of the arm. Each arm may be fitted with a connector comparable to the plug 208 for mounting to the upright 158. The short arm may be mounted to the upright 158 in a vertical position for vertical registration of the displays 152, 154, and the longer arm may be mounted to the upright 158 in a horizontal orientation for mounting for horizontal registration of the displays 152, 154.

It will be appreciated that particular embodiments of the invention have been described and that modifications may be made therein without departing from the spirit of the invention or necessarily departing from the scope of the appended claims.

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I claim:

1. A display system comprising:
 - a base;
 - a pair of electronic displays, each of the displays having an operative angular orientation relative to horizontal; positioning means for positioning the displays selectively in vertically registered relationship and in horizontally registered relationship, the positioning means comprising:
 - (a) an arm assembly supporting the displays;
 - (b) support means for supporting the arm assembly from the base selectively in a first orientation relative to the base in which the displays are in their vertically registered relationship and in a second orientation in which the displays are in their horizontally registered relationship; and,
 - (c) mounting means for mounting the displays to the arm assembly, the mounting means comprising means for adjusting the angular orientation of each of the displays relative to the arm assembly thereby to orient each of the displays in its operative angular orientation when the arm assembly is in either one of its first and second orientations.
 2. The display system of claim 1 in which:
the support means support the arm assembly for rotation about a generally horizontal axis; and,
the mounting means mount each of the displays to the arm assembly for relative rotation about a rotational axis substantially parallel to the generally horizontal axis.
 3. The display system of claim 2 in which:
the support means comprise means for releasably locking the arm assembly to the base in its first and second orientations; and,
the mounting means comprise means permitting rotation of each of the electronic displays only between a pair of extreme angular positions relative to the arm assembly, each of the angular positions corresponding to a different one of the first and second orientations of the arm assembly such that the display is oriented in its operative angular orientation whenever the arm assembly is locked to the base in either of the first and second positions and the display is rotated to its corresponding angular position.
 4. The display system of claim 3 in which the mounting means comprise:
 - a shaft fixed to one of the displays and aligned with the rotational axis of the one display;
 - means fixed to the arm assembly and supporting the shaft for rotation about the rotational axis of the one display; and,

complementary stop structures fixed to the shaft and to the arm assembly and positioned to engage as the shaft rotates relative to the arm assembly.

5. The display system of claim 2 in which:

the support means permit displacement of the arm assembly on the base between the first and second orientations; and,

the means for adjusting the angular orientation of the displays comprise means supporting each of the displays for rotation relative to the arm assembly and means coupling each of the displays to the arm assembly for rotation in response to displacement of the arm assembly between the first and second orientations.

6. The display system of claim 1 in which:

each of the displays is horizontally elongate in its operative angular orientation; and,

the arm assembly is an elongate telescopic member and the displays are mounted to opposing ends of the arm assembly such that the spacing of the displays in their horizontally and vertically registered relationships can be adjusted.

7. The display system of claim 1 in which the mounting means are adapted to permit tilting of one of the displays about a pair of mutually perpendicular axes, the mounting means comprising:

a ball supported from one of the display and the arm assembly;

a socket supported from the other of the display and the arm assembly and containing the ball;

a multiplicity of projections fixed to one of the ball and the socket, the multiplicity of projections comprising one pair of projections extending in opposite directions along one of the mutually perpendicular axes and another pair of projections extending in opposite directions along the other of the mutually perpendicular axes; and,

a multiplicity of slots formed in the other of the ball and the socket, the multiplicity of slots comprising a pair of opposing slots each of which receives a different one of the one pair of projections and another pair of opposing slots each of which receives a different one of the other pair of projections.

8. The display system of claim 7 in which the projections are fixed to the ball and the slots are formed in the socket.

9. The display system of claim 1 in which:

each of the displays is horizontally elongate in its operative angular orientation;

a predetermined one of the displays is below the other of the displays in their vertically registered relationship; the support means comprise upper and lower rotary shafts in parallel relationship and means mounting the shafts to the base for rotation about their respective lengthwise axes;

the arm assembly comprises a pair of horizontally spaced-apart arms, each of the arms has a fixed end and a free end, one of the arms has its fixed end fixed to the upper shaft such that the one arm rotates in a plane perpendicular to the upper shaft in response to rotation of the upper shaft, the other of the arms has its fixed end fixed to the lower shaft such that the other arm rotates in a plane perpendicular to the lower shaft in response to rotation of the upper shaft; and,

the one display is mounted to the free end of the one arm and the other display is mounted to the free end of the other arm.

10

10. The display system of claim 9 comprising constraining means constraining the rotary shafts to rotate together in opposite angular directions.

11. The display system of claim 10 in which the means for adjusting the angular orientation of the displays comprise:

means supporting each of the displays for rotation about a generally horizontal rotational axis relative to the arm to which the display is mounted; and,
coupling means coupling the one display to the upper shaft and the other display to the lower shaft such that the displays rotate in response to rotation of the rotary shafts.

12. The display system of claim 11 in which:

the constraining means comprise an upper gear fixed to the upper shaft, a lower gear fixed to the lower shaft, a central rotary shaft mounted for rotation to the base between the upper and lower shafts, and a gear fixed to the central rotary shaft and meshed with the upper and lower gears;

the means supporting each of the displays for rotation comprise a pair of rotary shafts each mounted for rotation to a different one of the arms and each supporting a different one of the displays; and,

the coupling means comprise a pair of belts, each of the belts couples a different one of the pair of rotary shafts supporting the displays to a different one of the upper and lower rotary shafts.

13. The display system of claim 1 in which:

each of the displays is elongate along a horizontal axis of the display when oriented in its operative angular orientation;

the arm assembly comprises an elongate arm; and,

the mounting means comprise connector means for connecting one of the displays to the arm at positions spaced along the arm, whereby, the spacing between the displays can be adjusted.

14. The display system of claim 13 in which the connector means for connecting the one display to the arm comprise:

a first socket mounted to the arm proximate to one end thereof;

a plug mounted to the one display and shaped to interlock with the socket to prevent rotation of the plug relative to the socket, the socket being shaped to receive the plug in either of a pair of orientations that are rotated substantially by 90 degrees, the socket being positioned on the arm such that the horizontal axis of the one display is aligned with the length of the arm when the plug is in one of the orientations and the horizontal axis of the one display is perpendicular to the length of the arm in the other of the relative angular positions; and, a second plug socket mounted to the arm proximate to the one end thereof and substantially identical to the first plug, the first and second plugs being spaced apart along the arm.

15. The display system of claim 14 in which the support means comprise:

a plug fixed to the arm; and,

a socket fixed to the base and shaped to interlock with the plug fixed to the arm when the arm is in a vertical orientation and when the arm is in a horizontal orientation, the plug fixed to the arm and the socket fixed to the base being shaped to prevent rotation of the arm relative to the base when interlocked.

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46. A display system comprising:

a pair of electronic displays;

positioning means for positioning the displays, the positioning means comprising:

(a) an arm assembly for supporting the displays;

(b) support means for supporting the arm assembly; and

(c) mounting means for mounting the displays to the arm

assembly, the mounting means comprising means for adjusting the angular orientation of each of the displays

relative to the arm assembly to thereby permit said displays to be angled relative to each other to a desired degree.

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